

HETEROJUNCTION MODULE

335 - 420 Watts

RECOM HJT Module

Overview

The Heterojunction Technology (HJT) combines high efficiency with a simple design reducing the number of manufacturing steps and achieving an important cost reduction. It combines the advantages of mono crystalline silicon solar cells with the good absorption and the superior passivation characteristics of amorphous silicon leading to a higher efficiency.

Key Benefits

THE ADVANCED HETEROJUNCTION TECHNOLOGY

1. Is highly efficient and produces more power per square meter than usual high efficiency cells (**20% more efficiency than a typical mono cell**).
2. Ensures higher efficiency and delivers higher output even at high temperatures (**much lower temperature coefficient** compared to a typical mono cell).

SMART WIRE TECHNOLOGY

HJT RECOM modules support the innovative smart wire (SWT) technology, a revolutionary cell wiring process that uses micro-wires instead of the traditional busbars.

SWT main benefits are:



Increase in efficiency by lowering ohmic losses and improved light management



Low temperature contacting during module lamination



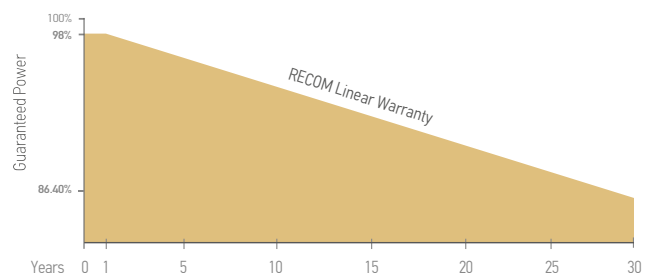
Enhancement of module reliability



Improved aesthetics



Linear Performance Warranty



HETEROJUNCTION MODULE

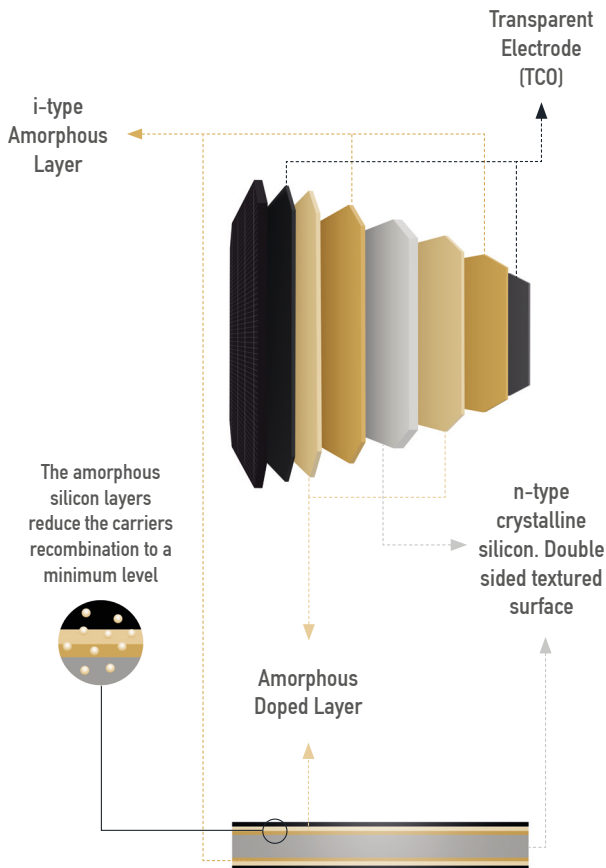
RCM-xxx-6HJB (xxx=335-350) / RCM-xxx-6HJA (xxx=400-420)

Electrical Characteristics

	MONOFACIAL MODULES									
	60 Cell Modules					72 Cell Modules				
Rated Power	335W	340W	345W	350W	400W	405W	410W	415W	420W	
Maximum Power Voltage (Vmp)	36.70V	36.90V	37.20V	37.50V	44.30V	44.60V	44.80V	45.10V	45.40V	
Maximum Power Current (Imp)	9.13A	9.21A	9.27A	9.33A	9.02A	9.09A	9.14A	9.20A	9.25A	
Open Circuit Voltage (Voc)	44.40V	44.70V	45.00V	45.40V	53.30V	53.50V	53.80V	54.10V	54.60V	
Short Circuit Current (Isc)	9.41A	9.45A	9.60A	9.62A	9.51A	9.54A	9.60A	9.66A	9.75A	
Module Efficiency	19.60%	19.63%	19.66%	19.69%	19.72%	19.75%	19.78%	19.81%	19.84%	
Maximum System Voltage	1.500 V DC									

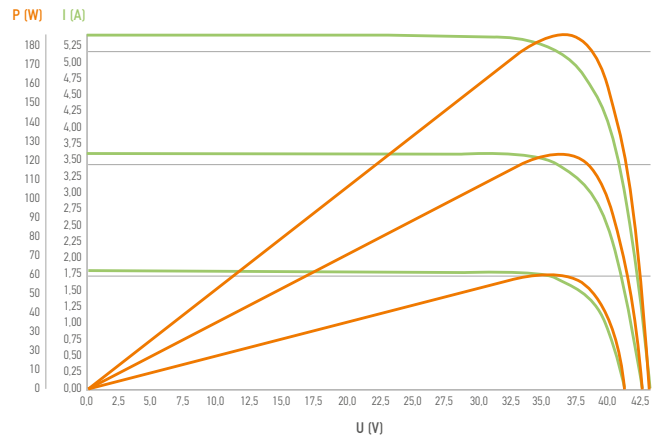
Tested at Standard Test Conditions. Measurement tolerances: ± 3%

HJT Cell Structure



I-V Curve

Low Irradiance IV Curves (200, 400, 600 W/m²)



Mechanical Data

Dimensions	1660mm x 990mm (60-cell modules) 1983mm x 998mm (72-cell modules)
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Temperature Characteristics

Pmax Temperature Coefficient	-0.25% / °C
Voc Temperature Coefficient	-0.27% / °C
Isc Temperature Coefficient	+0.045% / °C

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